This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *January 31, 1918.*

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1917.]

READ CAREFULLY BEFORE ORDERING.

☞Send no Remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

☞Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SPECIAL NOTICE.

Before mailing your request be sure and see that your name and complete post-office address (street number or rural route number as the case may be) is attached.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy unless otherwise noted.

Cranberry Insect Problems and Suggestions for Solving Them. By H. B. Scammell, Entomological Assistant, Deciduous Fruit Insect Investigations. Pp. 45, figs. 37. Contribution from the Bureau of Entomology. **(Farmers' Bulletin 860.)**

Supersedes Farmers' Bulletin 178, and is of interest to all cranberry growers.

Irrigation of Alfalfa. By Samuel Fortier, Chief, Irrigation Investigations. Pp. 40, figs. 36. Contribution from the Office of Public Roads and Rural Engineering. **(Farmers' Bulletin 865.)**

A revision of Farmers' Bulletin 373, and is of interest to Alfalfa growers generally.

Making Butter on the Farm. By William White, Dairy Division. Pp. 23, figs. 18. Contribution from the Bureau of Animal Industry. **(Farmers' Bulletin 876.)**

Supersedes Farmers' Bulletin 541, and is for general distribution.

Advice to Forest Planters in the Plains Region. By Seward D. Smith. Pp. 23. Contribution from the Forest Service. **(Farmers' Bulletin 888.)**

For distribution in the section known as the Great Plains Region.

Standard Varieties of Chickens. II. The Mediterranean and Continental Classes. By Rob R. Slocum, Animal Husbandry Division. Pp. 26, figs. 22. Contribution from the Bureau of Animal Industry. **(Farmers' Bulletin 898.)**

Describes the Leghorn, Minorca, Whitefaced Black Spanish, Blue Andalusian, Ancona, and Campine breeds of chickens.

Fire Prevention and Fire Fighting on the Farm. By H. R. Tolley, Scientific Assistant, and A. P. Yerkes, Assistant Agriculturist. Pp. 16, fig. 1. Contribution from the Office of Farm Management. **(Farmers' Bulletin 904.)**

For general destribution.

A Successful Community Drying Plant. By C. W. Pugsley, Director of Agricultural Extension, University of Nebraska. Pp. 12, figs. 9. **(Farmers' Bulletin 916.)**

Suitable for general distribution.

DEPARTMENTAL BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treatises of bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

The Mediterranean Fruit Fly in Hawaii. By E. A. Back, Entomologist, and C. E. Pemberton, Assistant Entomologist, Mediterranean and Other Fruit-Fly Investigations. Pp. 119, pls. 21, figs. 24. Contribution from the Bureau of Entomology. (Professional Paper.) Jan. 26, 1918. **(Department Bulletin 536.)** Price, 30 cents.

A study of the life history and distribution of this insect, with suggested methods for its control. No copies available for distribution by the department.

The Pecan Leaf Case-Bearer. By John B. Gill, Entomological Assistant, Deciduous Fruit Insect Investigations. Pp. 28, pls. 3. Contribution from the Bureau of Entomology. (Professional Paper.) Dec. 15, 1917. **(Department Bulletin 571.)** Price, 5 cents.

Describes the life history and habits of the insect, and suggests means for its control.

Farm Management and Farm Profits on Irrigated Land in the Provo Area (Utah Lake Valley.) By L. G. Connor, Assistant Agriculturist. Pp. 40, pls. 4. Contribution from the Office of Farm Management. Jan. 7, 1918. **(Department Bulletin 582.)** Price, 10 cents.

Of interest to prospective settlers in the region named.

The 28-Hour Law Regulating the Interstate Transportation of Live Stock: Its Purpose, Requirements, and Enforcement. By Harry Goding and A. Joseph Raub, Bureau of Animal Industry. Pp. 20, pls. 5, figs. 6. Contribution from the Bureau of Animal Industry. Jan. 5, 1918. **(Department Bulletin 589.)** Price, 10 cents.

Of interest to shippers of live stock.

A Method of Calculating Economical Balanced Rations. By J. C. Rundles, Scientific Assistant. Pp. 19. Contribution from the Office of Farm Management. Jan. 14, 1918. **(Department Bulletin 637.)** Price, 5 cents.

Of interest to raisers and feeders of live stock.

Lint Percentage and Lint Index of Cotton and Methods of Determination. By G. S. Meloy, Assistant, Crop Acclimatization and Cotton Breeding. Pp. 12, figs. 2. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 18, 1918. **(Department Bulletin 644.)** Price, 5 cents.

Of interest to cotton planters and breeders.

Some Reasons for Spraying to Control Insect and Mite Enemies of Citrus Trees in Florida. By W. W. Yothers, Entomological Assistant, Tropical and Subtropical Fruit Insect Investigations. Pp. 19. Contribution from the Bureau of Entomology. Jan. 26, 1918. **(Department Bulletin 645.)** Price, 5 cents.

Of especial interest to citrus fruit growers in Florida.

MISCELLANEOUS.

Inventory of Seeds and Plants Imported by the Office of Foreign Seed and Plant Introduction During the Period from October 1, to December 31, 1914. Pp. 67, pls. 4. Dec. 29, 1917. **(Inventory No. 41; Nos. 39309 to 39681. Bureau of Plant Industry.)** Price, 10 cents.

The Agricultural Situation for 1918. Part I, Hogs. Hog Production Should be Increased. Pp. 24, figs. 2. January, 1918. **(Circular 84, Office of the Secretary.)** Price, 5 cents.

The first of a series of statements regarding the necessity for increased production of food products in 1918.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 11, No. 13. Dec. 24, 1917. Contents: Structure of the Pod and the Seed of the Georgia Velvet Bean, Stizolobium deeringianum. (Ig G–130) By Charles V. Piper and J. Marion Shull.—Decomposition of Green and Stable Manures in Soil. (Ii Iowa–5) By R. S. Potter and R. S. Snyder.—Eupatorium urticaefolium as a Poisonous Plant. (Ih A–33) By C. Dwight Marsh and A. B. Clawson. Pp. 673–715, pls. 6, figs. 9. Price, 20 cents.

Same, Vol. 12, No. 1, Jan. 7, 1918. Contents: Effect of Time of Digestion on the Hydrolysis of Casein in the Presence of Starch. (Ii Ky.–6) By J. S. McHargue.—Behavior of Sweet Potatoes in the Ground. (In G–131) By Heinrich Hasselbring.—Studies in Soil Reaction as Indicated by the Hydrogen Electrode. (Io N. C.–7) By J. K. Plummer. Pp. 31, fig. 1. Price, 10 cents.

Same, Vol. 12, No. 2. Jan. 14, 1918. Contents: Pure Cultures of Wood-Rotting Fungi on Artificial Media. (Ip G–132) By W. H. Long and R. M. Harsch.—Gossypol, the Toxic Substance in Cottonseed. (Im N. C.–8) By W. A. Withers and Frank E. Carruth.—Fruit-Fly Parasitism in Hawaii During 1916. (Is K–59.) By C. E. Pemberton and H. F. Willard. Pp. 33–108, pl. 1, figs. 3. Price, 20 cents.

Same, Vol. 12, No. 3. Jan. 21, 1918. Contents: Irrigation Experiments on Apple-Spot Diseases. (Iv G–133) By Charles Brooks and D. F. Fisher.—Relation of Carbon Dioxid to Soil Reaction as Measured by the Hydrogen Electrode. (Iq Cal.–13.) By D. R. Hoagland and L. T. Sharp. Pp. 109–148, pls. 4, figs. 10. Price, 15 cents.

Same, Vol. 12, No. 4. Jan. 28, 1918. Contents: A Study of the Plow Bottom and Its Action Upon the Furrow Slice. (It N. Y. (Cornell)–3.) By E. A. White.—Influence of Nitrates on Nitrogen-Assimilating Bacteria. (Ir Wis.–10.) By T. L. Hills. Pp. 149–230, pls. 4, figs. 26. Price, 25 cents.

☞NOTE.—Beginning with volume 5 the Journal of Agricultural Research has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being $3 per year, 52 numbers.

Experiment Station Record. Vol. 37, No. 7, November, 1917. E. W. Allen, Ph. D., Editor. Pp. 601–700. Price, 15 cents.

Same, Vol. 37, No. 8, December, 1918. Pp. 701–800. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 4, No. 1, January, 1918. Pp. 1–8. **(Bureau of Crop Estimates.)**

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

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SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals, especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 127, November, 1917. Pp. 117–127. Jan. 24, 1918. Price, 5 cents.

Bureau of Chemistry. Supplement 31. [N. J. 5001–5050.] Pp. 1–58. Jan. 28, 1918. Price, 10 cents.

Bureau of Chemistry. Supplement 32. [N. J. 5051–5100.] Pp. 59–121. Jan. 29, 1918. Price, 10 cents.

Federal Horticultural Board. No. 46. November, 1917. Pp. 135–142. Jan. 7, 1918. Price, 5 cents.

Bureau of Markets. No. 30. Pp. 9. Jan. 23, 1918. Price, 5 cents.

SOIL SURVEYS.

All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of the San Fernando Valley Area, California. By L. C. Holmes, E. C. Eckmann, and G. L. Harrington, of the U. S. Department of Agriculture, and J. E. Guernsey and C. J. Zinn, of the University of California. Pp. 61, pls. 4, figs. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Howard County, Maryland. By William T. Carter, Jr., of the U. S. Department of Agriculture, and J. P. D. Hull, of the Maryland Geological Survey. Pp. 34, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Kimball County, Nebraska. By A. H. Meyer, J. O. Veatch, and B. W. Tillman, of the U. S. Department of Agriculture, and F. A. Hayes, H. C. Mortlock, and C. E. Collett, of the Nebraska Soil Survey. Pp. 28, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Kay County, Oklahoma. By N. M. Kirk and R. C. Jurney. Pp. 40, pl. 1, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 45, No. 10. October, 1917. [Dec. 31, 1917.] Pp. 481–528, charts 9, figs. 13. Price, 25 cents per copy, $2.50 per year. Payable to the Superintendent of Documents.

Special Articles: Atmospheric optical disturbances, Fall of 1911 to February, 1917. By C. Dorno.—Transparency of the atmosphere for ultra-violet radiation. By R. J. Strutt.—A. Brester's theory of the sun.—Lunar rainbow. By H. A. French.—Halos of October 3, 1917, in Texas and Ohio.—Notes on the climate of France and Belgium. By P. C. Day.—Fog along the California Coast. By A. H. Palmer.—Glaze, "Glazed Roads", "Ammil".—Great thunderstorm of Aug. 1, 1917, in Trinity County, Cal. By James Jones.—Heaviest rainfall in the British Isles.—Tropical hurricane of September 27–28, 1917, in southeastern Louisiana. By Ray A. Dyke.

National Weather and Crop Bulletin, No. 1, January, 1918; reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

Snow and Ice Bulletins for January 2, 8, 15, 22, 29, 1918. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

JOS. A. ARNOLD.
Chief, Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1918